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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/566,953	01/31/2006	Claes Gustafsson	11548-002-999	5350
20583 JONES DAY	7590 07/27/200	9	EXAMINER	
222 EAST 41ST ST			ZHOU, SHUBO	
NEW YORK,	NY 10017		ART UNIT	PAPER NUMBER
			1631	
			MAIL DATE	DELIVERY MODE
			07/27/2009	PAPER

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

Office Action Summary Examiner

pplication No.	Applicant(s)				
10/566,953	GUSTAFSSON ET AL.				
xaminer	Art Unit				
HUBO (Joe) ZHOU	1631				

The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply
A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE £ MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MALING DATE OF THIS COMMUNICATION. Extension of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed to the communication of
Status
Responsive to communication(s) filed on 2a) This action is FINAL. 2b) This action is non-final. 3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213.
Disposition of Claims
4) ⊠ Claim(s) 1 and 117-174 is/are pending in the application. 4a) Of the above claim(s) is/are withdrawn from consideration. 5) □ Claim(s) is/are allowed. 6) □ Claim(s) is/are rejected. 7) □ Claim(s) is/are objected to. 8) ⊠ Claim(s) 1, 117-174 are subject to restriction and/or election requirement.
Application Papers
9) The specification is objected to by the Examiner. 10) The drawing(s) filled on is/are: a) accepted or b) objected to by the Examiner. Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a). Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d) 11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.
Priority under 35 U.S.C. § 119
12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some color None of: 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No. 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received.
Attachment(s)

Attachment(s)		
1) Notice of References Cited (PTO-892) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclessure Statement(s) (PTO/S5/08) Paper No(s)/Mail Date	4) ☐ Interview Summary (PTO-413) Paper No(s)Mail Date. 5) ☐ Notice of Informal Patent Application 6) ☐ Other:	

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DETAILED ACTION

Restriction/Election Requirement

This application contains claims directed to the following patentably distinct sets of

species where the applicant is required under 35 U.S.C. 121 to elect a single disclosed species in

each set for prosecution on the merits to which the claims shall be restricted if no generic claim

is finally held to be allowable.

Set 1: This application contains claims directed to the following patentably distinct sets

of species with respect to the modeling step:

1A. The modeling comprises computation of a neural network, a Bayesian model, a

generalized additive model, a support vector machine, machine learning or classification using a

regression tree, as in claim 140;

1B. The modeling comprises boosting or adaptive boosting, as in claim 141.

The species are distinct because they involve distinct mathematical calculations and

statistic treatment and require different fields of searching.

Applicant is required under 35 U.S.C. 121 to elect a single disclosed species for

prosecution on the merits to which the claims shall be restricted if no generic claim is finally

held to be allowable.

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Set 2: This application contains claims directed to the following patentably distinct sets of species with respect to the nature of the biopolymer of interest:

- The biopolymer is one of those listed in claim 151;
- 2B. The biopolymer is one of those listed in claim 152.

The species are distinct because they involve distinct structures, properties and functions, and require different fields of searching.

Applicant is required under 35 U.S.C. 121 to elect a single disclosed species for prosecution on the merits to which the claims shall be restricted if no generic claim is finally held to be allowable.

- Set 3: This application contains claims directed to the following patentably distinct sets of species with respect to the modeling of sequence-activity relationship:
 - 3A. The modeling comprises regressing using the equation as stated in claim 138;
 - 3B. The modeling comprises regressing using the equation as stated in claim 165.

The species are distinct because they involve distinct mathematical calculations and statistic treatment and require different fields of searching.

Applicant is required under 35 U.S.C. 121 to elect a single disclosed species for prosecution on the merits to which the claims shall be restricted if no generic claim is finally held to be allowable.

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Restriction for examination purposes as indicated is proper because all these inventions listed in this action are independent or distinct for the reasons given above <u>and</u> there would be a serious search and examination burden if restriction were not required because one or more of the following reasons apply:

- (a) the inventions have acquired a separate status in the art in view of their different classification;
- (b) the inventions have acquired a separate status in the art due to their recognized divergent subject matter;
- (c) the inventions require a different field of search (for example, searching different classes/subclasses or electronic resources, or employing different search queries);
- (d) the prior art applicable to one invention would not likely be applicable to another invention;
- (e) the inventions are likely to raise different non-prior art issues under 35 U.S.C. 101 and/or 35 U.S.C. 112, first paragraph.

Applicant is advised that the reply to this requirement to be complete <u>must</u> include

(i) an election of a invention to be examined even though the requirement may be traversed (37

CFR 1.143) and (ii) identification of the claims encompassing the elected invention.

The election of an invention may be made with or without traverse. To reserve a right to petition, the election must be made with traverse. If the reply does not distinctly and specifically point out supposed errors in the restriction requirement, the election shall be treated as an election without traverse. Traversal must be presented at the time of election in order to be

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considered timely. Failure to timely traverse the requirement will result in the loss of right to petition under 37 CFR 1.144. If claims are added after the election, applicant must indicate which of these claims are readable on the elected invention.

If claims are added after the election, applicant must indicate which of these claims are readable upon the elected invention.

Should applicant traverse on the ground that the inventions are not patentably distinct, applicant should submit evidence or identify such evidence now of record showing the inventions to be obvious variants or clearly admit on the record that this is the case. In either instance, if the examiner finds one of the inventions unpatentable over the prior art, the evidence or admission may be used in a rejection under 35 U.S.C. 103(a) of the other invention.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Shubo (Joe) Zhou, whose telephone number is 571-272-0724. The examiner can normally be reached Monday-Friday from 8 A.M. to 4 P.M. If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Marjorie Moran, can be reached on 571-272-0720. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Patent applicants with problems or questions regarding electronic images that can be viewed in the Patent Application Information Retrieval system (PAIR) can now contact the USPTO's Patent Electronic Business Center (Patent EBC) for assistance. Representatives are available to answer your questions daily from 6 am to midnight (EST). The toll free number is (866) 217-9197. When calling please have your application serial or patent number, the type of

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document you are having an image problem with, the number of pages and the specific nature of the problem. The Patent Electronic Business Center will notify applicants of the resolution of the problem within 5-7 business days. Applicants can also check PAIR to confirm that the problem has been corrected. The USPTO's Patent Electronic Business Center is a complete service center supporting all patent business on the Internet. The USPTO's PAIR system provides Internet-based access to patent application status and history information. It also enables applicants to view the scanned images of their own application file folder(s) as well as general patent information available to the public. For all other customer support, please call the USPTO Call Center (UCC) at 800-786-9199.

/Shubo (Joe) Zhou/

SHUBO (JOE) ZHOU, PH.D.

PRIMARY EXAMINER

571-272-0724